

KALABINA, A.V.; MYASNIKOVA, L.S.; KOLMAKOVA, E.F.; SHESTAKOVA, I.R.;
PAVLOVA, M.P.

Synthesis and transformations of vinyl aryl ethers. Report
No.17: Synthesis and some properties of α, β -dibromoethyl
aryl ethers. Izv. Fiz.-khim. nauch.-issl. inst. Irk. un. 5
no.1:225-237 '61. (MIRA 16:8)

(Ethers)

GOL'DENBERG, V.G.; KALABINA, A.V.; SHOSTAKOVSKIY, M.F.

Production of vinyl aryl ethers at a pilot plant. Izv. Fiz.-
khim. nauch.-issl. inst. Irk. un. 5 no.1:290-295 '61.
(Ethers) (Phenol) (Coal—Carbonization) (MIRA 16:8)

KALABINA, A.V.; FILIPPOVA, A.Kh.; DMITRIYEVA, G.V.; TSARIK, I.Ya.

Polymerization of aryl vinyl ethers and their derivatives. Part 1:
Polymerization and copolymerization of vinyl ethers of halogenated
phenols. Vysokom.sped. 3 no.7:1020-1026 J1 '61. (MIRA 14:6)

1. Irkutskiy gosudarstvennyy universitet imeni A.A.Zhdanova.
(Ether) (Polymerization)

SHOSTAKOVSKIY, M.F.; KALABINA, A.V.; STARTSEVA, M.Ya.; POD'YACHENKO, N.P.

Synthesis and transformations of vinyl aryl ethers. Report
No.4: Synthesis and properties of vinyl ethers of ortho-,
meta-, and para- cresols and para-tert-amyl phenol. Izv.
Fiz.-khim. nauch.-issl. inst. Irk. un. 5 no.1:90-100 '61.
(MIRA 16:8)

(Ethers) (Phenol) (Cresol)

SHOSTAKOVSKIY, M.F.; KALABINA, A.V.; PEROVA, G.A.

Synthesis and transformations of vinyl aryl ethers. Report No.6:
Synthesis and properties of vinyl ethers of 1,3,5- and 1,2,6-
xylenols. Izv. Fiz.-khim. nauch.-issl. inst. Irk. un. 5 no.1:
111-119 '61. (MIRA 16:8)

(Ethers)

(Xylenol)

KALABINA, A.V.; TYUKAVKINA, N.A.; MANTSIVODA, G.F.; KRASOVSKIY, R.V.

Polymerization of vinyl aryl ethers and their derivatives. Part 2:
Ionic polymerization of vinyl aryl ethers. Vysokom.sqed. 3 no.8:
1150-1154 Ag '61. (MIRA 14:9)

1. Irkutskiy gosudarstvennyy universitet imeni A.A.Zhdanova.
(Ethers) (Polymerization)

KALABINA, A.V.; TYUKAVKINA, N.A.; KRUGLOVA, V.A.

Polymerization of vinyl aryl ethers and their derivatives. Part 3:
Low molecular weight radical polymerization of vinyl aryl ethers.
Vysokom.soed. 3 no.8:1155-1160 Ag '61. (MIRA 14:9)

1. Irkutskiy gosudarstvennyy universitet imeni A.A.Zhdanova.
(Ethers) (Radicals (Chemistry)) (Polymerization)

KALABINA, A.V.; TYUKAVKINA, N.A.; YASHINA, O.G.; MAKHNO, L.P.; FROLOV, Yu.L.

Synthesis and properties of vinyl ethers of some higher phenols.

Izv.vys.ucheb.zav.;khim.i khim.tekh. 4, no.4:626-631 '61.

(MIRA 15:1)

1. Irkutskiy gosudarstvennyy universitet imeni Zhdanova, kafedra
vysokomolekulyarnykh soyedineniy i organicheskogo sinteza.

(Phenols) (Ethers)

KALABINA, A.V.; TYUKAVKINA, N.A.; TERPUGOVA, M.F.

Synthesis and some properties of *o*, *p*-dichloroethyl ethers of the aromatic series. *Izv.vys.ucheb.zav.khim.i khim.tekh.* 4 no.4:632-635 '61. (MIRA 15:1)

1. Irkutskiy gosudarstvennyy universitet imeni Zhdanova, kafedra vysokomolekulyarnykh soyedineniy i organicheskogo sinteza.
(Ethers)

S/081/62/000/017/049/102
B158/B186

AUTHORS: Kalabina, A. V., Dubovik, N. A.

TITLE: Synthesis of certain chlorine anhydrides and β -arylhydroxy-vinylphosphinic esters

PERIODICAL: Referativnyy zhurnal, Khimiya, no. 17, 1962, 258, abstract 172h337 (Izv. Fiz.-khim. n.-i. in-ta pri Irkutskom un-te, v. 5, no. 1, 1961, 131-140)

TEXT: By reacting ArOCH=CH_2 (I) with PCl_5 , with the subsequent action of SO_2 , ArOCH=CHP(O)Cl_2 (II) is obtained; this is converted to $\text{ArOCH=CHP(O)(OR)}_2$ (IIIa-b, where a R = CH_3 , b R = C_2H_5) which has insecticidal properties. Cresole and xylene fractions of a resin obtained by semicoking Cherekhovo coals may also be used as I. 0.112 mole of I (Ar = m- $\text{CH}_3\text{OC}_6\text{H}_4$) is added to a mixture of 0.23 mole PCl_5 and 100 ml C_6H_6 with thorough shaking; SO_2 is passed through and 14.98 g II (Ar = m- $\text{CH}_3\text{OC}_6\text{H}_4$) is separated. 0.052 mole of II (Ar = m- $\text{CH}_3\text{OC}_6\text{H}_4$) is

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KALABINA, A.V.; TYUKAVKINA, N.A.; BARDAMOVA, M.I.; LAVROVA, A.S.

Synthesis and investigation of vinyl ethers of some alkyl-
and aryl-substituted phenols. Zhur.ob.khim. 31 no.10:3222-3226
0 '61. (MIRA 14:10)

1. Irkutskiy gosudarstvennyy universitet.
(Phenol) (Ethers)

KALABINA, A.V.; TYUKAVKINA, N.A.; FILIPPOVA, A.Kh.

Combining ethylmercaptan with some vinyl ethers of chlorophenols.
Izv.Sib.otd.AN SSSR no.1:97-101 '62. (MIRA 15:3)

1. Irkutskiy gosudarstvennyy universitet.
(Mercaptals) (Insecticides)

FROLOV, Yu.L.; FILIPPOVA, A.Kh.; KALABINA, A.V.; POGODAYEVA, L.K.;
TYUKAVKINA, N.A.

Physical studies in the area of unsaturated aryl ethers and their
derivatives. Part 1: Spectra of vinyl substitutes ether o-phenol.
Zhur.strukt.khim. 3 no.6:676-679 '62. (MIRA 15:12)

1. Irkutskiy gosudarstvennyy universitet.
(Phenol) (Ethers--Spectra)

SHOSTAKOVSKIY, M.F.; KALABINA, A.V.; TRUFANOVA, A.I.; IZHBOLDINA, A.T.

Synthesis and transformations of vinyl aryl ethers. Report
No.5: Chemical transformations of vinyl ethers of o-, m-,
p-cresols and p-tert-amyl phenol. Izv. Fiz.-khim. nauch.-issl.
inst. Irk. un. 5 no.1:101-110 '61. (MIRA 16:8)

(Ethers) (Phenol) (Cresol)

S/081/63/000/004/018/051
B166/B186

AUTHORS: Kalabina, A. V., Filippova, A. Kh., Aksenenko, E. A.,
Latysheva, E. S., Vinogradova, V. V., Zhidnyayeva, L. M.

TITLE: Studies in the field of synthesis and conversions of vinylary
esters. No. 22. Synthesis and certain conversions of vinyl
esters and acetals of bromophenols

PERIODICAL: Referativnyy zhurnal. Khimiya, no. 4, 1963, 238 - 239, ab-
stract 42h123 (Izv. Fiz.-khim. n.-i. in-ta pri Irkutskom un-ta,
v. 5, no. 1, 1961, 120 - 130)

TEXT: Vinylation of 2-bromophenol (I) and 4-bromophenol (II) by the Favor-
skiy - Shostakovskiy method (initial pressure of acetylene 18 - 28 atm
210 - 220°C, 30 - 45 min) in the presence of a large quantity of KOH or NaOH
and with high dilution of the reaction mixture with water (sometimes with
dioxane added) made possible the synthesis of the vinyl ester of I, yield
40%, b.p. 93 - 94°C/8 mm Hg, n_{D}^{20} 1.5676, d_4^{20} 1.4339, and the vinyl ester
of II (III), yield 12 - 52%, b.p. 215 - 216°C/720 mm Hg, 109 - 110°C/11 mm
Hg, n_{D}^{20} 1.5685, d_4^{20} 1.4366. The addition of I - II to aliphatic and

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S/081/63/000/004/018/051
E166/B186

Studies in the field of synthesis...

aromatic vinyl esters (with thorough stirring in the presence of 2 - 4 drops concentrated HCl) gave a series of $\text{CH}_2\text{CH}(\text{OR})\text{OR}'$ acetals (IV). Below are given: the initial vinyl ether, quantity in moles, the initial phenol, quantity in moles, reaction temp. in $^{\circ}\text{C}$ and the reaction time in hrs, R and R' in IV, yield %, b.p. in $^{\circ}\text{C}/\text{mm Hg}$, n_D^{20} and d_4^{20} : vinylethyl ether (V), 0.430, I, 0.300, 85 - 90, 1.5, C_2H_5 , O- BrC_6H_4 , 40, 135/15, 1.5223, 1.3208; V, 0.120, II, 0.058, 70 - 75, 1.5, C_2H_5 , n- BrC_6H_4 (IVa), 124 - 125/8, 1.5308, 1.3483; vinylbutyl ether, 0.679, II, 0.579, 75 - 86, 1, C_4H_9 , n- BrC_6H_4 (IVb), 38, 155 - 156/17, 1.5051, 1.2364; vinylphenyl ether, 0.167, II, 0.167, 70 - 80, 2, C_6H_5 , n- BrC_6H_4 , 47.1, 171 - 173/6, 1.5831, 1.3784; III, 0.115, II, 0.104, 70 - 80, 2, n- BrC_6H_4 (IVc), 55, 216 - 217/8, m.p. 46°C , 1.6025, -.

A study was made of substitution of the Br atom in III and IV by ethyl and ethoxyl groups. Experiments to hydrolyze III and IV with dilute alkali to the respective vinyl esters of the phenols (in an autoclave, 220 - 300°C , in the presence of Cu_2Cl_2 and Cu shavings) were unsuccessful. To 53 mmoles IVa in 20 ml cryoscopic C_6H_6 were added 0.08 moles $\text{C}_2\text{H}_5\text{Br}$ and 0.13 moles Na, Card 2/3

S/081/63/000/004/018/051
B166/B186

Studies in the field of synthesis...

which was thoroughly stirred for 2 hrs at 60 - 65°C and then left to stand for ~ 12 hrs, whereupon it was filtered through glass wool and distilled, to give IV ($R = C_2H_5$, $R' = n-C_2H_5C_6H_4$) (IVd), yield 60%, b.p. 93 - 94°C/16 mm Hg, n_D^{20} 1.5008, d_4^{20} 0.9851. 5 g IVd and 20 ml 20% H_2SO_4 were heated for 3 hrs at ~100°C to give 4-ethylphenol (VI), yield 88%, b.p. 93 - 95°C/7 mm Hg, n_D^{20} 1.5240. In the optimum experiment 0.054 moles IVb, 0.079 moles C_2H_5Br and 0.13 moles Na in 200 ml C_6H_6 were heated for 2 hrs at 80°C and, as stated above, IV were separated ($R = C_4H_9$, $R' = C_2H_5C_6H_4$), yield 8%, b.p. 140 - 142°C/17 mm Hg, n_D^{20} 1.4960, d_4^{20} 0.9275. Under similar conditions (85 - 90°C, 2.5 hrs) the vinyl ester of VI was produced, yield 10%, b.p. 92 - 93°C/18 mm Hg, n_D^{20} 1.5148. A mixture of 0.077 moles III, 0.117 moles dry C_2H_5ONa , 10 ml C_6H_6 and 50 g Cu filings was kept at 330°C for 6 hrs; it was then washed with 10% alkali and 4-ethoxyphenol vinyl ester was separated by distillation, yield 40%, b.p. 101 - 102°C/3 mm Hg, n_D^{20} 1.5232. See abstract 4Zh122. [Abstracter's note: Complete translation.]

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S/091/63/000/004/017/051
B166/B106

AUTHORS: (17) Kalabina, A. V., Myasnikova, L. S., Kolmakova, E. F.,
Shestakov, I. R., Pavlova, M. P., (18) Kalabina, A. V.,
Prilezhayeva, Ye. N., Yakovleva, Z. I.

TITLE: Studies in the field of synthesis and conversions of vinylaryl
esters. No. 17. Synthesis and certain properties of α, β -di-
bromomethylaryl esters. No. 18. The addition of mercaptans to
vinyl esters of the aromatic series

PERIODICAL: Referativnyy zhurnal. Khimiya, no. 4, 1963, 233, abstract
4Zh122 (Izv. Fiz.-khim. n.-i. in-ta pri Irkutskom un-te, v. 5,
no. 1, 1961, 193 - 206, 225 - 237)

TEXT: (17) Bromination of the vinyl esters of phenol (I), o-cresol (II),
n-tert-butylphenol and thymol (III) in CCl_4 gave the respective α, β -dibrom-
ethyl esters (IV - VII), which have lachrymatory properties; without the
solvent partial polymerization takes place. IV - VII probably exist in the
form of two tautomeric forms $\text{CH}_2\text{BrCHBrOAr} \rightleftharpoons [\text{CHBr-CHO(H)Ar}]^+ \text{Br}^-$,
as ionic Br is easily back-titrated by aqueous solutions of NaOH and AgNO_3 ,
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S/081/63/000/004/017/051
H166/B166

Studies in the field of...

whilst IV - VII themselves are smoothly converted into β -bromovinyl esters (BVE) when vacuum distilled, yield 80 - 85%. Hydrolysis of IV - VII proceeds in two distinct stages: first of all under the action of H_2O cold there is dissociation of the weak oxonium complex, and the BVE which forms only splits with long boiling in an acid medium. Into a solution of 0.14 moles I in 40 ml CCl_4 at $-5^\circ C$ ($3 - 8^\circ C$ inside the flask) were stirred, over a period of 1.5 - 2 hrs, 0.15 moles dry Br_2 in 20 ml CCl_4 , and IV, $C_8H_8OBr_2$, was distilled off, yield 97.2%, b.p. $129 - 130^\circ C/12$ mm Hg, n_D^{20} 1.5849, d_4^{20} 1.7418, fumes in air. 3 g IV and 50 ml water were shaken in a closed bottle at $45 - 50^\circ C$ for 5 hrs, this was extracted with ether, and 1.19 g phenol BVE (VIII) was separated by distillation, b.p. $100 - 102^\circ C/10$ mm Hg, n_D^{20} 1.5750, as well as 1.403 g IV. 1 g VIII and 25 ml 5% H_2SO_4 were heated, stirring at $100^\circ C$ for 6 - 7 hrs; this was neutralized with alkali and extracted with ether; after evaporating, $BrCH_2CHO$ was separated from the residue in the form of a semicarbazone; the alkaline layer was treated with 10% H_2SO_4 , C_6H_5OH was extracted with ether. V - VII were synthesized under similar conditions

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(below are given: the substance, yield %, b.p. in °C/mm Hg, n_D^{20} , d_4^{20}).
V, 97.6, 133 - 134/14, 1.5718, 1.5662, (BVE, b.p. 145 - 148°C/35 mm Hg, n_D^{20} 1.5662); VI, 96.1, 126 - 127.3, 1.5450, 1.4909; VII, 97.5, 149 - 150.4, 1.5548, 1.4595.

(18) The addition of ethyl- and butylmercaptans to I - III was achieved by ionic and radical mechanisms, leading to $CH_3CH(SR)OAr$ (IX) and $RSCH_2CH_2OAr$

(X) respectively. Substitutes of the first kind in the benzene ring considerably simplify radical addition. The thioacetals produced are easily hydrolyzed with dilute H_2SO_4 and split quantitatively when X is treated

with $HgCl_2$, which proves their structure to be that of β adducts; under these conditions IX is highly stable. 0.1 mole I, 0.1 mole C_2H_5SH and 0.02 g azo-

diisobutyronitrile were heated in a sealed ampoule at 90 - 100°C for 24 hrs, and X ($R = C_2H_5$, $Ar = C_6H_5$), $C_{10}H_{14}OS$, was distilled, yield 85.02%,

b.p. 123.5°C/3 mm Hg, n_D^{20} 1.5433, d_4^{20} 1.0543. The other X were produced

under similar conditions (below are given: R, Ar, the gross formula, yield %,

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Studies in the field of...

S/081/63/000/004/017/051
E166/E186

b.p. in °C/mm Hg, n_D^{20} , d_4^{20}): C_4H_9 , C_6H_5 , $C_{12}H_{18}OS$, 97.20, 141.0 - 142.0/2, 1.5313, 1.0118; C_2H_5 , $o-CH_3C_6H_4$ (Xa), $C_{11}H_{16}OS$, 97.19, 139.0/7, 1.5394, 1.0352; C_2H_5 , 3- CH_3 -5-iso- $C_3H_7C_6H_3$, $C_{12}H_{22}OS$, 98.61, 166.0 - 167.0/12, 1.5270, 1.0025. A weak stream of dry SO_2 was bubbled for 1 - 2 min into a cooled ampoule containing 0.1 mole I and 0.1 mole C_2H_5SH ; this was allowed to stand for 3 - 4 hrs and then neutralized with dry H_2CO_3 , giving IX ($R = C_2H_5$, $Ar = C_6H_5$) (IXa), $C_{10}H_{14}OS$, yield 68.5%, b.p. 62 - 63.0°C/3 mm Hg, n_D^{20} 1.5365, d_4^{20} 1.0436. A mixture of 0.2487 g IXa and an excess of 20% solution of $HgCl_2$ in alcohol was allowed to stand for 2 - 3 hrs, methyl orange was added and 97.52% HCl was found by titration with 0.1 N $NaOH$. A stream of SO_2 was bubbled for 0.5 - 1 min into a mixture of 0.1 mole II and 0.15 mole C_2H_5SH , after 20 - 25 min IX was separated by distillation ($R = C_2H_5$, $Ar = o-CH_3C_6H_4$), $C_{11}H_{16}OS$, yield 60.0%, b.p. 74 - 75°C/12 mm Hg, n_D^{20} 1.5250, d_4^{20} 1.0084, as well as Xa (in view of traces of O_2), yield 3.1 g. For the previous communication see RZhKhim, 1961, 52h101. [Abstractor's note: Complete translation.]
Card 4/4

KALABINA, A.V.; VLASOVA, N.N.; MIRSKOVA, A.N.

Synthesis and properties of some aromatic mercaptans, sulfides,
and sulfones. Izv. SO AN SSSR no.7 Ser.khim.nauk no.2:99-104
'63. (MIRA 16:10)

1. Irkutskiy gosudarstvennyy universitet i Irkutskiy institut
organicheskoy khimii Sibirskogo otdeleniya AN SSSR.

SHOSTAKOVSKIY, M.F.; KALABINA, A.V.; KOMAROV, N.V.

Synthesis and transformations of vinyl aryl ethers. Report
No.1: Synthesis and properties of vinyl ether of p-sec-propylphenol.
Izv. Fiz.-khim. nauch.-issl. inst. Irk. un. 5 no.1:215-224 '61.
(MIRA 16:8)

(Ethers)

(Phenol)

KALABINA, A.V.; KOGAN, R.Z.; GERBIK, V.I.

Synthesis and transformations of vinyl aryl ethers. Report No.14:
Reaction of vinyl aryl ethers with organic acids. Izv. Fiz.-khim.
nauch.-issl. inst. Irk. un. 4 no.2:167-189 '59. (MIRA 16:8)

(Ethers) (Acids, Organic)

KALAEVA, A.V.; PRILEZHAYEVA, Ye.N.; YAKOVLEVA, Z.I.

Synthesis and transformations of vinyl aryl ethers. Report
No.18: Addition of mercaptans to vinyl ethers of the aromatic
series. Izv. Fiz.-khim. nauch.-issl. inst. Irk. un. 5 no.1:
193-206 '61. (MIRA 16:8)

(Ethers)

(Thiols)

ACCESSION NR: AT4020713

S/0000/63/000/000/0242/0246

AUTHOR: Kalabina, A. V.; Tyukavkina, N. A.; Kruglova, V. A.

TITLE: Investigations of the polymerization and copolymerization of vinylaryl ethers and their derivatives. IV. Radical copolymerization of simple vinyl ethers of the aromatic series with chloroprene

SOURCE: Karbotsepnyye vyssokomolekulyarnyye soyedineniya (Carbon-chain macromolecular compounds); sbornik statey. Moscow, Izd-vo AN SSSR, 1963, 242-246

TOPIC TAGS: polymerization, block polymerization, copolymerization, radical copolymerization, vinylaryl ether, chloroprene, azodiisobutyronitrile, benzoyl peroxide

ABSTRACT: A study of the block copolymerization of chloroprene with vinylphenyl, vinyl-o-cresyl, vinyl-m-cresyl and vinyl-p-cresyl ethers at 60C, initiated with 0.2 wt.% azodiisobutyronitrile, which has not previously been described in the literature, showed that the rate of copolymerization depends markedly on the composition of the initial mixtures and is considerably lower than the rate of polymerization of chloroprene for all initial monomer ratios studied. Regardless of the composition of the initial mixture, all the resulting copolymers had a high content of chloroprene, and the amount of the vinylaryl ether in the co-

ACCESSION NR: AT4020713

polymer was not higher than 20-25 mol.%. The relationship between the degree of copolymerization of chloroprene and vinylphenyl ether and the reaction time for different compositions of the initial mixture is illustrated. The dependence of the degree of polymerization on the concentration of either azodiisobutyronitrile or benzoylperoxide was also investigated. Orig. art. has: 2 figures and 4 tables.

ASSOCIATION: Irkutskiy gosudarstvennyy universitet (Irkutsk State University)

SUBMITTED: 11Jul62

DATE ACQ: 20Mar64

ENCL: 00

SUB CODE: 0C

NO REF SOV: 005

OTHER: 003

Card 2/2

KALABINA, A.V.; STEPANOV, D. Ye.; KRON, V.A.; CHERNOV, A.B.

Vinyl ethers in diene synthesis. Report No.2: Nitration and sulfonation of hexachlorophenoxybicycloheptane. Izv. SO AN SSSR no.7 Ser. khim. nauk no.2:106-110 '64 (MIRA 18:1)

1. Irkutskiy gosudarstvennyy universitet imeni A.A. Zhdanova i Irkutskiy institut organicheskoy khimii Sibirskogo otdeleniya AN SSSR.

L 2656-65 EPF(c)/EPR/EPA(s)-2/EWP(j)/EWI(m)/T PC-4/PT-4/PS-4/PT-10 RM
ACCESSION NR: AT5002136 NM/MLK S/0000/64/000/000/0267/0272

AUTHOR: Kalabina, A. V.; Grechkin, Yo. F.; Bychkova, T. I.; Filippova, A. Ki.;
Tyukavkina, N. A.; Yermakova, L. T.

TITLE: Synthesis of some new vinyl-aryl ethers and of their conversion products.

SOURCE: AN SSSR. Institut neftekhimicheskogo sinteza. Sintez i svoystva monomero-
(The synthesis and properties of monomers). Moscow, Izd-vo Nauka, 1964, 267-272.

TOPIC TAGS: vinyl aryl ether, aromatic ether, phenol derivative, diphenylpropane
derivative, diphenolpropane divinyl ether, polyether synthesis, boron trifluoride

ABSTRACT: Studies on the synthesis of vinylaryl ethers were expanded by the prepara-
tion of new ethers from substituted phenols and of their conversion products to obtain

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L 22656-65
ACCESSION NR: AT5002136

2

phenyl ether homopolymer. Routes for producing di- and trichloroethyl-, and 1-chloro-
and B,B-dichloro- vinyl-aryl ethers are established. The reactions of vinylaryl ethers

formula and tables.

ASSOCIATION: None

SUBMITTED: 30Jul64

ENCL 00

SUB CODE: CC, GC

NO REF SOV: 013

OTHER: 002

L 1082h-65 EWT(m)/EPP(c)/EPR/EWP(j)/T Pc-L/Pr-L/Pz-L RPL/ASD(m)-3 RM/HR

ACCESSION NR: AP4045424

S/0190/64/000/000/1573/1573

AUTHOR: Tyukavkina, N. A.; Kalabina, A. V.; Derjabin, G. I.; Zhikharev, G. T. (2)
Biryukova, A. D.

TITLE: Copolymerization of simple vinyl aryl ethers with vinylidene chloride

SOURCE: Vy*sokelemekulyarny*ye soyedineniya, v. 6, no. 9, 1964, 1573-1578

TOPIC TAGS: copolymerization, vinylidene chloride copolymer, vinyl aryl ether, polyvinyl copolymer, vinylphenyl ether, vinylp-toluenyl ether, benzoylperoxide, diazoisobutyronitrile

ABSTRACT: The effects of the temperature and duration of the reaction, the nature and amount of initiator, and the proportion of individual monomers in the original mixture (10 to 90 mol. %) were examined in a study of the copolymerization of vinylidene chloride

polymers with material and drying to constant weight at 30-40°C in a vacuum. All over 60%

Card 1/2

L 10824-55

ACCESSION NR: AP4046424

dinitrile proved to be a more effective initiator than benzoylperoxide, increasing polymerization yields as its concentration in the mixture was increased from 0.2 to 1.0 wt. %.
of 7-10% in the yield of copolymers, to a maximum of 62.97%, with

possible radical and ionic mechanisms of the polymerization, are discussed. The
has: 3 figures and 1 table.

ASSOCIATION: Irkutsky gosudarstvennyy universitet im. A. A. Zhdanova (Irkutsk
State University)

SUBMITTED: 01Oct83

ENCL: 00

SUB CODE: CC

NO REF SOV: 000

OTHER: 000

Card: 2/2

KALABINA, A.V.; DUBINSKAYA, E.I.; FILIPPOVA, A.Kh.; FROLOV, Yu.L.;
RATOVSKIY, G.V.

Synthesis of vinyl ethers of nitro- and halonitrophenols. Izv.
vys.ucheb.zav.; khim. i khim.tekh. 7 no.2:232-236 '64.

(MIRA 18:4)

1. Irkutskiy gosudarstvennyy universitet im. A.A. Zhdanova,
kafedra vysokomolekulyarnykh soyedineniy.

MAKSYUTIN, Yu.K.; FROLOV, Yu.L.; KALABINA, A.V.; SHEVELEVA, V.A.

Hydrogen bonding between phenols and vinyl and aryl ethers.
Zhur.fiz.khim. 38 no.11:2604-2607 N '64. (MIRA 18:2)

1. Irkutskiy gosudarstvennyy universitet imeni Zhdanova.

KALABINA, A.V.; BYCHKOVA, T.I.; MAKSYUTIN, Yu.K.

Synthesis and transformations of halo-substituted vinyl aryl
ethers. Part 1: Cis- and trans- β -chlorovinyl aryl ethers.
Zhur. org. khim. 1 no.8:1406-1411 Ag '65. (MIRA 18:11)

1. Irkutskiy gosudarstvennyy universitet.

L 34101-65 EPA(s)-2/ENT(m)/EPF(s)/EPR/ENF(1)/T Pc-L/Pr-L/Ps-L/It-10 MI/RI

ACCESSION NR: AP5007435

S/0266/65/000/004/0062/0062

AUTHOR: Grechkin, Ye. F.; Kalabina, A. V.

TITLE: Preparative method for heat-resistant phosphorus-containing polymers.

Class 39, No. 168445

SOURCE: Byulleten' izobreteniy i tovarnykh znakov, no. 4, 1965, 62

TOPIC TAGS: heat resistant polymer, polymer, phosphorus containing polymer, vinyl-phosphonic acid

ABSTRACT: An Author Certificate has been issued for a preparative method for heat-resistant phosphorus-containing polymers, involving the treatment of tetrachloro derivatives of β -substituted vinylphosphonic acids (alc) with proton donors at ele-

formic acid is used as the proton donor.

ASSOCIATION: none

SUBMITTED: 20Apr63

ENCL: 00

SUB CODE: 00, 00

NO REF SOV: 000

OTHER: 000

ATT PRESS: 3210

Card 1/1

ZIKHERMAN, K.Kh.; KALABINA, A.V.

Synthesis of some polychloroethyl ethers of phenol and chlorophenols.
Izv. AN SSSR. Ser. khim. no.7:1254-1256 '65. (MIRA 18:7)

1. Irkutskiy institut organicheskoy khimii Sibirskogo otdeleniya
AN SSSR.

KALABINA, A.V.; TSARIK, L.Ya.; BODYUKH, L.A.; MAKSYUTIN, Yu.K.

Copolymerization of hydroquinone divinyl ether with methyl
methacrylate. Vysokom.sped. 7 no.10:1758-1762 © '65.
(MIRA 18:11)

1. Ikrutskiy gosudarstvennyy universitet.

L 21801-66 EWP(j)/EWT(m) RM

ACC NR: AP6012642

SOURCE CODE: UR/0079/65/035/001/0070/0072

AUTHOR: Kalabina, A. V.; Myn-in', Lyu

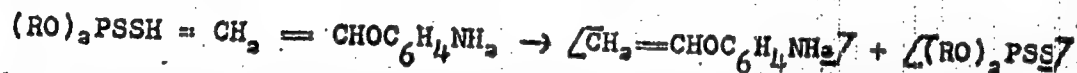
ORG: Irkutsk State University (Irkutskiy gosudarstvennyy universitet)

TITLE: Reaction of dialkyldithiophosphoric acids with vinylaminophenyl esters

SOURCE: Zhurnal obshchey khimii, v. 35, no. 1, 1965, 70-72

TOPIC TAGS: chemical reaction, ester, chemical stability, organic nitrogen compound, organic sulfur compound

ABSTRACT: Under ordinary conditions, the addition of dialkyldithiophosphoric acids to vinylaminophenyl esters cannot be carried out. Vinylaminophenyl esters which have a basic group in the benzene ring differ in their reactivity from vinylaryl esters with other substituents in the ring. In this case, the reaction follows the scheme



Vinyloxyaniline salts of dialkyldithiophosphoric acids are crystalline compounds, readily soluble in alcohol, acetone, dioxane, and often water, but poorly in nonpolar solvents. They are unstable upon heating, and storage in air, readily change into a

Card 1/2

UDC: 547.562/564: 546.221

L 21801-66

ACC NR: AP6012642

brownish-red gummy mass or solids. However, these compounds can be preserved over calcium chloride for several days. Vinyl esters of aminophenols were obtained by vinylation of aminophenols with acetylene in aqueous dioxane. The vinyl ester of 4-aminophenol has a boiling point of 80.5° (1.5 mm), $74-75^{\circ}$ (1 mm), $n_D^{20}=1.5772$. The vinyl ester of 3-aminophenol has a boiling point of $78-79^{\circ}$ (2mm), and $n_D^{20}=1.5832$. Orig. art. has: 1 table. [JPES]

SUB CODE: 07 / SUBM DATE: 22Jul63 / ORIG REF: 005

Card 2/2

KALABINA, A.V.; LIU MENG-YIN [Liu Meng-yin]; ACHAKHAYOVA, I.P.

Synthesis of some *N*-acyl derivatives of vinyl aminopropyl ethers.
Zhur. ob. khim. 35 no.1:22-25 Jan '65. (MIRA 18:1)

I. Irkutskiy gosudarstvennyy universitet.

L 21762-66 IMP(j)/ENT(m)/T JAJ/RM

ACC NR: AP6012648

SOURCE CODE: UR/0079/65/035/002/0338/0343

AUTHOR: Kalabina, A. V.; Myn-in', Lyu; Asalkhayeva, L. D.; Bychkova, T. I.

ORG: Irkutsk State University (Irkutskiy gosudarstvennyy universitet)

TITLE: Synthesis of certain O, O-dialkyl-S-(alpha - aryloxy- beta -chloro-ethyl) dithiophosphates and O, O-dialkyl (diphenyl)-S-(alpha -aryloxy- gamma, gamma, gamma - trichloropropyl) dithiophosphates

SOURCE: Zhurnal obshchey khimii, v. 35, no. 2, 1965, 338-343

TOPIC TAGS: organic synthetic process, ester, ammonium salt, organic phosphorous compound, isomer

ABSTRACT: The reaction of α, β -dichloroethylaryl esters with ammonium salts of dialkyldithiophosphoric acid was studied and the new O, O-dialkyl-S-(α -aryloxy- β -chloroethyl) dithiophosphates were synthesized. A study was made of the addition of diethyldithiophosphoric acid to the cis- and trans-isomers of the β -chlorovinylphenyl ester. A reaction scheme is proposed. The addition of carbon tetrachloride to vinylaryl esters was investigated and two $\alpha, \gamma, \gamma, \gamma$ -tetrachloropropylaryl esters not described in the literature were synthesized. The reaction of $\alpha, \gamma, \gamma, \gamma$ -tetrachloropropylaryl esters with ammonium salts of dialkyl (diphenyl) dithiophosphoric acids was studied and five new dialkyl (diphenyl)-S-(α -aryloxy- γ, γ, γ -trichloropropylethyl) dithiophosphate were obtained. Orig. art. has: 5 formulas and 3 tables. [JPRS]

SUB CODE: 07 / SUBM DATE: 11Dec63 / ORIG REF: 016
Card 1/1 28 UDC: 547.371+546.185+546.222.2

KALABINA, A.V.; KOLMAKOVA, E.F.; BYCHKOVA, T.I.; MAKSYUTIN, Yu.K.;
DENISEVICH, E.A.; SMOLINA, G.I.

Substituted vinyl and ethyl aryl ethers. Part 1: Reaction of
phenyl sulfenyl chloride with vinyl aryl ethers. Zhur. ob.
khim. 35 no.6:979-982 Je '65. (MIRA 18:6)

1. Irkutskiy gosudarstvennyy universitet.

L 27451-66 EWT(m)/EWP(j)/T RPL NW/RM

ACC NR: AP5025962

SOURCE CODE: UR/0190/65/007/010/1758/176237

AUTHOR: Kalabina, A. V.; Tsarik, L. Ya.; Bodyukh, L. A.; Makayutin, Yu. K.

ORG: Irkutsk State University (Irkutskiy gosudarstvennyy universitet)

TITLE: Investigations in the polymerization and copolymerization of vinylaryl ethers and their derivatives. Report No. 6. Copolymerization of hydroquinone dimethyl ether with methylmethacrylate

TOPIC TAGS: methylmethacrylate, alkaryl ether, copolymerization, radical polymerization, copolymer, ion exchange resin, polymer structure

ABSTRACT: The copolymerization of hydroquinone dimethyl ether (I) with methylmethacrylate (MMA) was investigated. Bulk polymerization of 1-20% I with 99-80% MMA initiated by azobisisobutyronitrile gave 20% yields of cross-linked polymers whose ether linkage content increased with initial amount of I. Benzoyl peroxide initiated suspension copolymerization was carried out. The use of a combination of starch and talcum as suspension stabilizers was required in order to form copolymer granules. High copolymer yields (88%) were obtained when a 1:3 ratio of monomer mixture: water was used. The static exchange capacity

Card 1/2

UDC: 66.095.26+678.744+678.746

L 27451-66

ACC NR: AP5025962

of the saponified copolymers was found to depend on the amount of I and on the degree of saponification of the copolymer. Copolymers made from 5% of I in the initial reaction mixture have the greatest exchange capacity (9 mg. equiv/gm) and show high resistance to hydrolysis in 5M mineral acid and alkali solutions. "In conclusion we thank V. A. Shevelev for obtaining the IR spectra." Orig. art. has: 3 tables and 1 figure.

SUB CODE: MT, OC/ SUBM DATE: 18Nov64/ ORIG REF: 006/ OTH REF: 000

Card 2/2 *So*

511-116144 11-6
ABDULLAYEV, Kh.M., akademik; ADELUNG, A.S.; VORONICH, V.A.; GOR'KOVY, O.P.;
KALABINA, M.G.; MALAKHOV, A.A.; MATSOKINA, T.M.; MIRKHODZHAYEV, I.M.;
RADZHABOV, F.Sh.; TUMASHEVSKAYA, E.S., red.izd-va; GOR'KOVAYA, Z.P.,
tekhn.red.

[Principal features of magmatism and metallogeny in the Chatkal-
Kurama mountain ranges] Osnovnye cherty magmatizma i metallogeni
Chatkalo-Kuraminskikh gor. Pod obshchei red. Kh.M.Abdullaeva.
Tashkent, Izd-vo Akad.nauk Uzbekskoi SSR, 1958. 288 p. (MIRA 11:7)

1. Akademiya nauk Uzbekskoy SSR (for Abdullayev)
(Chatkal Mountain Range--Mineralogy)
(Kurama Mountain Range--Mineralogy)

MATSOKINA-VORONICH, T.M., kand. geol.-miner. nauk, otv. red.;
VORONICH, V.A., kand. geol.-miner. nauk, red.; KNAUF, V.I.,
kand. geol.-miner. nauk, red.; FEDORCHUK, V.P., doktor
geol.-miner. nauk, red.; KALABINA, M.G., red.; NURATDINOVA,
M.R., red.

[Problems of the methods of plotting the metallogenetic and
prognostic maps of Central Asia; materials] Voprosy metodiki
sostavleniya metallogenicheskikh i prognoznykh kart Srednei
Azii; materialy. Tashkent, Nauka, 1964. 274 p.

(MIRA 18:6)

1. Sredneaziatskoye soveshchaniye po metodike sostavleniya
metallogenicheskikh i prognoznykh kart. 1st, 1962. 2. Insti-
tut geologii i geofiziki im. Kh.M.Abdullayeva AN Uzbekskoy
SSR (for Matsokina-Voronich). 3. Glavnoye upravleniye geo-
logii i okhrany nedr pri Sovete Ministrov Uzbekskoy SSR (for
Kalabina).

PROCESS AND PREPARATION																									
MATERIALS INDEX																									
<p>KALABINA, M.M. CA</p> <p>Effect of the toxic substances of waste waters of non-ferrous metallurgy on microorganisms and biochemical process associated with self-purification of reservoirs. M. M. Kalabina, K. A. Mndretzova-Viss, A. S. Rastupov, and Z. T. Rogdovskaja. <i>Gigiena i Sanit. (U.S.S.R.)</i> 9, No. 10/11, 1-7(1944). Development of microorganisms in waste waters (dil. sewage H₂O) is retarded by CuSO₄ or Pb(OAc)₂. 0.5 mg. of Cu per l. is toxic for all microorganisms, 0.1 mg. per l. only so for bacteria. Pb contents, toxic to biochem. oxidation of org. matter, to flagellates and infusoria, to nitrification bacteria, and to other bacteria are, resp. 0.1, 0.5, 0.5-1, and 1 mg. per l. H. A.</p>																									
<p>ASB-SLA METALLURGICAL LITERATURE CLASSIFICATION</p>																									
<p>12000 12100 12200 12300 12400 12500 12600 12700 12800 12900 13000 13100 13200 13300 13400 13500 13600 13700 13800 13900 14000 14100 14200 14300 14400 14500 14600 14700 14800 14900 15000 15100 15200 15300 15400 15500 15600 15700 15800 15900 16000 16100 16200 16300 16400 16500 16600 16700 16800 16900 17000 17100 17200 17300 17400 17500 17600 17700 17800 17900 18000 18100 18200 18300 18400 18500 18600 18700 18800 18900 19000 19100 19200 19300 19400 19500 19600 19700 19800 19900 20000 20100 20200 20300 20400 20500 20600 20700 20800 20900 21000 21100 21200 21300 21400 21500 21600 21700 21800 21900 22000 22100 22200 22300 22400 22500 22600 22700 22800 22900 23000 23100 23200 23300 23400 23500 23600 23700 23800 23900 24000 24100 24200 24300 24400 24500 24600 24700 24800 24900 25000 25100 25200 25300 25400 25500 25600 25700 25800 25900 26000 26100 26200 26300 26400 26500 26600 26700 26800 26900 27000 27100 27200 27300 27400 27500 27600 27700 27800 27900 28000 28100 28200 28300 28400 28500 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ZHUKOV, A.I., professor; KALABINA, M.M., professor; ROGOVSKAYA, TS.I.,
starshiy nauchnyy sotrudnik.

Purification of phenol polluted sewage. Gig. i san. 22 no.5:69-72
My '57. (MIRA 10:10)

1. Iz Vsesoyuznogo nauchno-issledovatel'skogo instituta vodosnab-
zheniya, kanalizatsii, gidrotekhnicheskikh sooruzheniy i inzhenernoy
gidrogeologii

(SEWAGE,
purification from phenols (Rus))
(PHENOLS,
purification of sewage (Rus))

IVANOV, V.I.; KALABINA, M.M., prof.

Purification of waste waters from synthetic rubber and synthetic
alcohol plants. Zhur. VKHO 6 no.2:130-141 '61. (MIRA 14:3)
(Sewage—Purification)(Rubber, Synthetic)(Alcohol)

SIDOROV, A.A., otv. red.; ZHUKOV, A.I., red.; KALABINA, M.M., red.;
LUR'YE, Yu.Yu., red.; MONGAYT, I.L., red.; ROGOVSKAYA, Ts.I.,
red.; RYBNIKOVA, A.I., red.; SKVORTSOVA, I.P., red.izd-va;
SMIRNOVA, A.P., red.izd-va; MOCHALINA, Z.S., tekhn. red.

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SOV/28-58-5-22/37

AUTHOR: Kalabukha, N.D. and Koptsov, I.A., Engineers

TITLE: Some Requirements for Technical Blueprints (Nekotoryye trebovaniya k tekhnicheskoy dokumentatsii)

PERIODICAL: Standartizatsiya, 1958, Nr 5, pp 65 - 68 (USSR)

ABSTRACT: The author discusses the confusion which at present exists in the drawing up of technical blueprints, due to a lack of proper and unified standards. He advocates the standardization of requirements relating to technical blueprints and discusses methods of designating components and products, reproducing blueprints, etc.

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